SEQUENCE LISTING

<110> Crofts, Linda Anne
        Hancock, Manuela S.
        Morrison, Nigel A.
        Eisman, John A.

<120> Isoforms of the Human Vitamin D Receptor

<130> RICE-014

<140> 09/509,482
<141> 2000-09-15

<150> PCT/AU98/00817
<151> 1998-09-29

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tgcggcgctc acagccacag gagcaggagg gtcttggcga agcatgaagc ggaaggcact        420
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tcgtgtgaat gatggtggag ggagccatcc ttccaggccc aactccagac acactcccag        780
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<210> 5
<211> 207
<212> DNA
<213> Homo sapiens

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caccgcagc ccaatccatc actcagcaac tcctagacgc tggtagaaag ttcctccgag         180
gagcctgcca tccagtcgtg cgtgcag                                            207
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<210> 6
<211> 167
<212> DNA
<213> Homo sapiens

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cctcagctgt agaaaccttg acaactctgc acatcagttg tacaatggaa cggtattttt        120
tactcttcat gtctgaaaag gctatgataa agatcaagta agatatt                      167
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<210> 7
<211> 1574

3

<212> DNA
<213> Homo sapiens

<400> 7
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cacccgcagc ccaatccatc actcagcaac tcctagacgc tggtagaaag ttcctccgag       180
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<210> 8
<211> 122
<212> DNA
<213> Homo sapiens

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gg                                                                     122
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<210> 9
<211> 477
<212> PRT
<213> Homo sapiens

<400> 9
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Arg Thr Ala Gly Val Glu Glu Ala Phe Gly Ser Glu Val Ser Val Arg
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4

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                20                      25                      30
Pro His Arg Arg Ala Pro Leu Gly Ser Thr Tyr Leu Pro Pro Ala Pro
        35                      40                      45
Ser Gly Met Glu Ala Met Ala Ala Ser Thr Ser Leu Pro Asp Pro Gly
    50                      55                      60
Asp Phe Asp Arg Asn Val Pro Arg Ile Cys Gly Val Cys Gly Asp Arg
65                      70                      75                      80
Ala Thr Gly Phe His Phe Asn Ala Met Thr Cys Glu Gly Cys Lys Gly
                85                      90                      95
Phe Phe Arg Arg Ser Met Lys Arg Lys Ala Leu Phe Thr Cys Pro Phe
            100                     105                     110
Asn Gly Asp Cys Arg Ile Thr Lys Asp Asn Arg Arg His Cys Gln Ala
            115                     120                     125
Cys Arg Leu Lys Arg Cys Val Asp Ile Gly Met Met Lys Glu Phe Ile
    130                     135                     140
Leu Thr Asp Glu Glu Val Gln Arg Lys Arg Glu Met Ile Leu Lys Arg
145                     150                     155                     160
Lys Glu Glu Glu Ala Leu Lys Asp Ser Leu Arg Pro Lys Leu Ser Glu
                165                     170                     175
Glu Gln Gln Arg Ile Ile Ala Ile Leu Leu Asp Ala His His Lys Thr
            180                     185                     190
Tyr Asp Pro Thr Tyr Ser Asp Phe Cys Gln Phe Arg Pro Pro Val Arg
            195                     200                     205
Val Asn Asp Gly Gly Gly Ser His Pro Ser Arg Pro Asn Ser Arg His
    210                     215                     220
Thr Pro Ser Phe Ser Gly Asp Ser Ser Ser Ser Cys Ser Asp His Cys
225                     230                     235                     240
Ile Thr Ser Ser Asp Met Met Asp Ser Ser Ser Phe Ser Asn Leu Asp
                245                     250                     255
Leu Ser Glu Glu Asp Ser Asp Asp Pro Ser Val Thr Leu Glu Leu Ser
            260                     265                     270
Gln Leu Ser Met Leu Pro His Leu Ala Asp Leu Val Ser Tyr Ser Ile
            275                     280                     285
Gln Lys Val Ile Gly Phe Ala Lys Met Ile Pro Gly Phe Arg Asp Leu
    290                     295                     300
Thr Ser Glu Asp Gln Ile Val Leu Leu Lys Ser Ser Ala Ile Glu Val
305                     310                     315                     320
Ile Met Leu Arg Ser Asn Glu Ser Phe Thr Met Asp Asp Met Ser Trp
                325                     330                     335
Thr Cys Gly Asn Gln Asp Tyr Lys Tyr Arg Val Ser Asp Val Thr Lys
            340                     345                     350
Ala Gly His Ser Leu Glu Leu Ile Glu Pro Leu Ile Lys Phe Gln Val
            355                     360                     365
Gly Leu Lys Lys Leu Asn Leu His Glu Glu Glu His Val Leu Leu Met
    370                     375                     380
Ala Ile Cys Ile Val Ser Pro Asp Arg Pro Gly Val Gln Asp Ala Ala
385                     390                     395                     400
Leu Ile Glu Ala Ile Gln Asp Arg Leu Ser Asn Thr Leu Gln Thr Tyr
                405                     410                     415
Ile Arg Cys Arg His Pro Pro Pro Gly Ser His Leu Leu Tyr Ala Lys
            420                     425                     430
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5

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Met Ile Gln Lys Leu Ala Asp Leu Arg Ser Leu Asn Glu Glu His Ser
        435                 440                 445
Lys Gln Tyr Arg Cys Leu Ser Phe Gln Pro Glu Cys Ser Met Lys Leu
        450                 455                 460
Thr Pro Leu Val Leu Glu Val Phe Gly Asn Glu Ile Ser
465                 470                 475


<210> 10
<211> 450
<212> PRT
<213> Homo sapiens


<400> 10
Met Glu Trp Arg Asn Lys Lys Arg Ser Asp Trp Leu Ser Met Val Leu
 1               5                  10                  15
Arg Thr Ala Gly Val Glu Gly Met Glu Ala Met Ala Ala Ser Thr Ser
            20                  25                  30
Leu Pro Asp Pro Gly Asp Phe Asp Arg Asn Val Pro Arg Ile Cys Gly
            35                  40                  45
Val Cys Gly Asp Arg Ala Thr Gly Phe His Phe Asn Ala Met Thr Cys
            50                  55                  60
Glu Gly Cys Lys Gly Phe Phe Arg Arg Ser Met Lys Arg Lys Ala Leu
65                  70                  75                  80
Phe Thr Cys Pro Phe Asn Gly Asp Cys Arg Ile Thr Lys Asp Asn Arg
                85                  90                  95
Arg His Cys Gln Ala Cys Arg Leu Lys Arg Cys Val Asp Ile Gly Met
            100                 105                 110
Met Lys Glu Phe Ile Leu Thr Asp Glu Glu Val Gln Arg Lys Arg Glu
        115                 120                 125
Met Ile Leu Lys Arg Lys Glu Glu Glu Ala Leu Lys Asp Ser Leu Arg
        130                 135                 140
Pro Lys Leu Ser Glu Glu Gln Gln Arg Ile Ile Ala Ile Leu Leu Asp
145                 150                 155                 160
Ala His His Lys Thr Tyr Asp Pro Thr Tyr Ser Asp Phe Cys Gln Phe
                165                 170                 175
Arg Pro Pro Val Arg Val Asn Asp Gly Gly Gly Ser His Pro Ser Arg
            180                 185                 190
Pro Asn Ser Arg His Thr Pro Ser Phe Ser Gly Asp Ser Ser Ser Ser
        195                 200                 205
Cys Ser Asp His Cys Ile Thr Ser Ser Asp Met Met Asp Ser Ser Ser
        210                 215                 220
Phe Ser Asn Leu Asp Leu Ser Glu Glu Asp Ser Asp Asp Pro Ser Val
225                 230                 235                 240
Thr Leu Glu Leu Ser Gln Leu Ser Met Leu Pro His Leu Ala Asp Leu
                245                 250                 255
Val Ser Tyr Ser Ile Gln Lys Val Ile Gly Phe Ala Lys Met Ile Pro
            260                 265                 270
Gly Phe Arg Asp Leu Thr Ser Glu Asp Gln Ile Val Leu Leu Lys Ser
        275                 280                 285
Ser Ala Ile Glu Val Ile Met Leu Arg Ser Asn Glu Ser Phe Thr Met
        290                 295                 300
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6

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Asp Asp Met Ser Trp Thr Cys Gly Asn Gln Asp Tyr Lys Tyr Arg Val
305                 310                 315                 320
Ser Asp Val Thr Lys Ala Gly His Ser Leu Glu Leu Ile Glu Pro Leu
                325                 330                 335
Ile Lys Phe Gln Val Gly Leu Lys Lys Leu Asn Leu His Glu Glu Glu
                340                 345                 350
His Val Leu Leu Met Ala Ile Cys Ile Val Ser Pro Asp Arg Pro Gly
                355                 360                 365
Val Gln Asp Ala Ala Leu Ile Glu Ala Ile Gln Asp Arg Leu Ser Asn
        370                 375                 380
Thr Leu Gln Thr Tyr Ile Arg Cys Arg His Pro Pro Pro Gly Ser His
385                 390                 395                 400
Leu Leu Tyr Ala Lys Met Ile Gln Lys Leu Ala Asp Leu Arg Ser Leu
                405                 410                 415
Asn Glu Glu His Ser Lys Gln Tyr Arg Cys Leu Ser Phe Gln Pro Glu
                420                 425                 430
Cys Ser Met Lys Leu Thr Pro Leu Val Leu Glu Val Phe Gly Asn Glu
                435                 440                 445
Ile Ser
        450


<210> 11
<211> 72
<212> PRT
<213> Homo sapiens

<400> 11
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  1                 5                 10                 15
Arg Thr Ala Gly Val Glu Gly Met Glu Ala Met Ala Ala Ser Thr Ser
                20                 25                 30
Leu Pro Asp Pro Gly Asp Phe Asp Arg Asn Val Pro Arg Ile Cys Gly
                35                 40                 45
Val Cys Gly Asp Arg Ala Thr Gly Phe His Phe Asn Ala Met Thr Cys
        50                 55                 60
Glu Gly Cys Lys Gly Phe Phe Arg
65                 70


<210> 12
<211> 427
<212> PRT
<213> Homo sapiens

<400> 12
Met Glu Ala Met Ala Ala Ser Thr Ser Leu Pro Asp Pro Gly Asp Phe
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Asp Arg Asn Val Pro Arg Ile Cys Gly Val Cys Gly Asp Arg Ala Thr
                20                 25                 30
Gly Phe His Phe Asn Ala Met Thr Cys Glu Gly Cys Lys Gly Phe Phe
                35                 40                 45
Arg Arg Ser Met Lys Arg Lys Ala Leu Phe Thr Cys Pro Phe Asn Gly
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7

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      50              55              60
Asp Cys Arg Ile Thr Lys Asp Asn Arg Arg His Cys Gln Ala Cys Arg
65                  70                  75                  80
Leu Lys Arg Cys Val Asp Ile Gly Met Met Lys Glu Phe Ile Leu Thr
                85                  90                  95
Asp Glu Glu Val Gln Arg Lys Arg Glu Met Ile Leu Lys Arg Lys Glu
                100                 105                 110
Glu Glu Ala Leu Lys Asp Ser Leu Arg Pro Lys Leu Ser Glu Glu Gln
                115                 120                 125
Gln Arg Ile Ile Ala Ile Leu Leu Asp Ala His His Lys Thr Tyr Asp
        130                 135                 140
Pro Thr Tyr Ser Asp Phe Cys Gln Phe Arg Pro Pro Val Arg Val Asn
145                 150                 155                 160
Asp Gly Gly Gly Ser His Pro Ser Arg Pro Asn Ser Arg His Thr Pro
                165                 170                 175
Ser Phe Ser Gly Asp Ser Ser Ser Ser Cys Ser Asp His Cys Ile Thr
                180                 185                 190
Ser Ser Asp Met Met Asp Ser Ser Ser Phe Ser Asn Leu Asp Leu Ser
                195                 200                 205
Glu Glu Asp Ser Asp Asp Pro Ser Val Thr Leu Glu Leu Ser Gln Leu
        210                 215                 220
Ser Met Leu Pro His Leu Ala Asp Leu Val Ser Tyr Ser Ile Gln Lys
225                 230                 235                 240
Val Ile Gly Phe Ala Lys Met Ile Pro Gly Phe Arg Asp Leu Thr Ser
                245                 250                 255
Glu Asp Gln Ile Val Leu Leu Lys Ser Ser Ala Ile Glu Val Ile Met
                260                 265                 270
Leu Arg Ser Asn Glu Ser Phe Thr Met Asp Asp Met Ser Trp Thr Cys
                275                 280                 285
Gly Asn Gln Asp Tyr Lys Tyr Arg Val Ser Asp Val Thr Lys Ala Gly
        290                 295                 300
His Ser Leu Glu Leu Ile Glu Pro Leu Ile Lys Phe Gln Val Gly Leu
305                 310                 315                 320
Lys Lys Leu Asn Leu His Glu Glu Glu His Val Leu Leu Met Ala Ile
                325                 330                 335
Cys Ile Val Ser Pro Asp Arg Pro Gly Val Gln Asp Ala Ala Leu Ile
                340                 345                 350
Glu Ala Ile Gln Asp Arg Leu Ser Asn Thr Leu Gln Thr Tyr Ile Arg
                355                 360                 365
Cys Arg His Pro Pro Pro Gly Ser His Leu Leu Tyr Ala Lys Met Ile
        370                 375                 380
Gln Lys Leu Ala Asp Leu Arg Ser Leu Asn Glu Glu His Ser Lys Gln
385                 390                 395                 400
Tyr Arg Cys Leu Ser Phe Gln Pro Glu Cys Ser Met Lys Leu Thr Pro
                405                 410                 415
Leu Val Leu Glu Val Phe Gly Asn Glu Ile Ser
                420                 425

<210> 13
<211> 142
<212> DNA
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8

<213> Homo sapiens

<400> 13
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ctcctctttg gggtaagtac ag   142

<210> 14
<211> 26
<212> PRT
<213> Homo sapiens

<400> 14
Met Glu Ala Met Ala Ala Ser Thr Ser Leu Pro Asp Pro Gly Asp Phe
 1   5   10   15
Asp Arg Asn Val Pro Arg Ile Asp Asx Asp
            20   25

<210> 15
<211> 76
<212> PRT
<213> Homo sapiens

<400> 15
Met Glu Trp Arg Asn Lys Lys Arg Ser Asp Trp Leu Ser Met Val Leu
 1   5   10   15
Arg Thr Ala Gly Val Glu Glu Ala Phe Gly Ser Glu Val Ser Val Arg
            20   25   30
Pro His Arg Arg Ala Pro Leu Gly Ser Thr Tyr Leu Pro Pro Ala Pro
        35   40   45
Ser Gly Met Glu Ala Met Ala Ala Ser Thr Ser Leu Pro Asp Pro Gly
    50   55   60
Asp Phe Asp Arg Asn Val Pro Arg Ile Asp Asx Asp
65   70   75

<210> 16
<211> 49
<212> PRT
<213> Homo sapiens

<400> 16
Met Glu Trp Arg Asn Lys Lys Arg Ser Asp Trp Leu Ser Met Val Leu
 1   5   10   15
Arg Thr Ala Gly Val Glu Gly Met Glu Ala Met Ala Ala Ser Thr Ser
            20   25   30
Leu Pro Asp Pro Gly Asp Phe Asp Arg Asn Val Pro Arg Ile Asp Asx
        35   40   45
Asp

<210> 17

9

<211> 1463
<212> DNA
<213> Homo sapiens

<400> 17

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tgagacctca cagaagagca cccctgggct ggtgaatgga cgggggacga ggaagtccct       180
acctccgtta ccgccggtcg tgaagggacg gactgggacc tctgaaactg gccttgcacg       240
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<212> DNA
<213> Homo sapiens

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10

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<400> 20
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11

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12